

ENHANCED ENGLISH ABSTRACT FOR DE3029307

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Derwent Accession :

1982-17945E [10]

Title :

Blood substitute with oxygen transport properties produced by coupling of a polysaccharide e.g. dextran with cell-free haemoglobin

Derwent Class :

B04

Patent Assignee :

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2

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Advanced IPC (V8) :

A61K-031/40 [2006-01 A - I R - -]; A61K-031/715 [2006-01 A - I R - -];

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Core IPC (V8) :

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EPO Class Codes :

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Abstract :

DE3029307 A

Haemoglobin-contg. blood substitutes of the formula M-R1-B-R2-Hb (I) in which the cell-free haemoglobin Hb is linked via reactive groups R1 and R2 and a bridging ligan B with a polysaccharide M are new. In the formula, B is an opt. mono- or polysubstd. 3-14C aliphatic group, or a cycloalkyl or aryl group with up to 14C atoms; and R1 and R2 are -O-, -NH-, :N-, -S-, -S(CH₂)-, :N-(CH₂)_m-NH-, -NH-(CH₂)_m-NH-, :N-(CH₂)_m-N:, or a carboxy or hydrazide group, m is 1 to 14). Since the blood substitute has oxygen-transporting properties, it can be used in cases of haemorrhagic shock where the extent of blood loss is such that erythrocyte-free transfusions cannot be used safely. The new product has a long half-life in the body, and has oxygen-transport properties approximating those of natural haemoglobin.

Manual Codes :

CPI: B04-B04D B12-H06

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Update Equiv. :

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